

10/565582

PATENT APPLICATION

IAP20 Rec'd PCT/PTO 23 JAN 2006

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re the application of:

Attorney Docket No.: 3081.154US01

Mark Bischoff et al.

Application No.: Unknown

Filed: *Of Even Date*

For: METHOD FOR PROCESSING MATERIALS WITH LASER PULSES HAVING A  
SPECTRAL BANDWIDTH AND DEVICE FOR CARRYING OUT SAID METHOD

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INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Pursuant to 37 C.F.R. § 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached Form PTO-1449. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the references be made of record therein and appear among the "References Cited" on any patent to issue therefrom. The listing of a reference herein is not an admission that the reference is prior art or that the reference is material to patentability.

This Information Disclosure Statement is being filed with the application. No certification or fee is required.

Some of the listed references have been cited in counterpart foreign applications. An English language copy of the International Search Report (for application No. PCT/EP2004/008090) is attached for the Examiner's information. Although Applicants do not acquiesce in the characterization of the references listed in the search report, especially with respect to the currently pending U.S. claims, the search report identifies the concise explanation of relevance of the cited references. Specifically, a concise explanation of relevance of German language references DE 102 03 198 A1 and DE 100 06 081 A1 is identified in the search report.

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Attorney Docket No. 3081.154US01

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In addition, a further concise explanation of relevance of references DE 102 03 198 A1 and DE 100 06 081 A1 is identified in the attached Delphion and Derwent records and in the reference figures. Applicants retain the right to obtain a translation of the references in the future if such action is deemed helpful to advance prosecution.

Please note that the following foreign language references have English language counterparts, which are presumed to have corresponding subject matter as the foreign language references and are listed on the attached Form PTO-1449:

U.S. Patent No. 6,616,275 is an English language counterpart to WO 01/12113 A1;

U.S. Patent Publication No. 2004/102767 A1 is an English language counterpart to WO 02/28305 A1;

U.S. Patent Publication No. 2005/0107708 is an English language counterpart to WO 03/057023 A1;

U.S. Patent No. 5,373,135 is an English language counterpart to DE 39 26 859 C2; and

U.S. Patent No. 6,326,589 B1 is an English language counterpart to DE 197 41 329 C1.

This application was filed after June 30, 2003; therefore, copies of cited U.S. patents and U.S. published applications are not included.

Respectfully submitted,



Douglas J. Christensen  
Registration No. 35,480

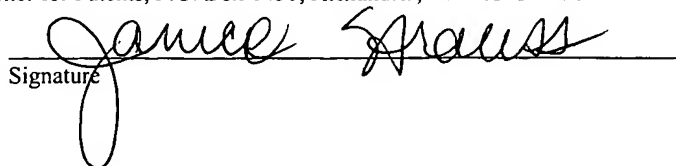
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"Express Mail" mailing label number EV494287735US. Date of Deposit: January 23, 2006. I hereby certify that this paper is being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. § 1.10 on the date indicated above and is addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

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Signature

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Unknown <b>10/565582</b>
				Filing Date	Of Even Date
				First Named Inventor	Mark Bischoff
				Art Unit	UNKNOWN
				Examiner Name	Unknown
Sheet	1	of	3	Attorney Docket Number	3081.154US01

U.S. PATENT DOCUMENTS				
EXAMINER INITIAL*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
		US-4,399,345	08/16/1983	Lapham et al.
		US-4,494,226	01/15/1985	Hazel et al.
		US-4,655,547	04/07/1987	Heritage et al.
		US-5,286,947	02/15/1994	Clyde et al.
		US-5,350,374	09/27/1994	Smith
		US-5,373,135	12/13/1994	Beyer et al.
		US-5,559,398	10/29/1996	Sun et al.
		US-5,720,894	02/24/1998	Neev et al.
		US-5,948,214	09/07/1999	Bailey
		US-6,150,530	11/21/2000	Perry et al.
		US-6,281,471 B1	08/28/2001	Smart
		US-6,326,589 B1	12/04/2001	Beersiek et al.
		US-6,329,270 B1	12/11/2001	Voutsas
		US-6,616,275 B1	09/09/2003	Dick et al.
		US-2004/0102767 A1	05/27/2004	Stingl et al.
		US-6,787,733 B2	09/07/2004	Lubatschowski et al.
		US-2005/0107708 A1	05/19/2005	Wrobel et al.
		US-		

FOREIGN PATENT DOCUMENTS					
EXAMINER INITIAL*	Cite No. <sup>1</sup>	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	T <sup>6</sup>
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
		WO 01/12113 A1	02/22/2001	Dick	
		WO 02/28305 A1	04/11/2002	Stingl	
		WO 03/057023 A1	07/17/2003	Wrobel	
		DE 39 26 859 C2	07/05/1990	Beyer	
		DE 41 24 162 C1	12/03/1992	Overmeyer	X (abstract)
		DE 197 41 329 C1	10/22/1998	Beersiek	

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<sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>See Kinds Codes of USPTO Patent Documents at [www.uspto.gov](http://www.uspto.gov) or MPEP 901.04. <sup>3</sup>Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). <sup>4</sup>For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. <sup>5</sup>Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. <sup>6</sup>Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.

Substitute for form 1449/PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> <i>(Use as many sheets as necessary)</i>				Complete if Known	
				Application Number	Unknown <b>10/565582</b>
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				First Named Inventor	Mark Bischoff
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	2	of	3	Attorney Docket Number	3081.154US01

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL*	Cite No. <sup>1</sup>	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number-Kind Code <sup>2</sup> (if known)		
		US-		
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## FOREIGN PATENT DOCUMENTS

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		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			
		DE 100 07 391 A1	05/31/2001	Russek	X (abstract)
		DE 100 06 081 A1	08/23/2001	Kaden	X (abstract)
		DE 100 20 559 A1	10/31/2001	Lubatschowski	
		DE 102 03 198 A1	07/31/2003	Bischoff	X (abstract)

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				Application Number	Unknown
				Filing Date	Of Even Date
				First Named Inventor	Max Bischoff
				Art Unit	Unknown
				Examiner Name	Unknown
Sheet	3	of	3	Attorney Docket Number	3081.154US01
NON PATENT LITERATURE DOCUMENTS					
EXAMINER INITIAL*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published			T <sup>2</sup>
		KORTE, et al., "Sub-diffraction limited structuring of solid targets with femtosecond laser pulses," <u>OPTICS EXPRESS</u> , Vol. 7, No. 2, pp. 41-49 (July 17, 2000).			
		BRIXNER, et al., "Femtosecond polarization pulse shaping," <u>OPTICS LETTERS</u> , Vol. 26, No. 8, pp. 557-559 (April 15, 2001).			
		STOIAN, et al., "Laser ablation of dielectrics with temporally shaped femtosecond pulses," <u>Appl. Phys. Lett.</u> , Vol. 80, No. 3, pp. 353-355 (January 21, 2002).			
		STOIAN, et al., "Ultrafast laser material processing using dynamic temporal pulse shaping," <u>RIKEN Review No. 50</u> , pp. 71-76 (January 2003).			
		HACKER, et al., "Micromirror SLM for femtosecond pulse shaping in the ultraviolet," <u>Appl. Phys. B</u> , Vol. 76, pp. 711-714 (2003).			
EXAMINER SIGNATURE		DATE CONSIDERED			
<p>*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. <sup>1</sup>Applicant's unique citation designation number (optional). <sup>2</sup>Applicant is to place a check mark here if English language Translation is attached.</p> <p>This collection of information is required by 37 CFR 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 120 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450.</p> <p><i>If you need assistance in completing the form, call 1-800-PTO-9199 (1-800-786-9199) and select option 2.</i></p>					